

**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A method of protecting a cryptographic algorithm (6) ~~for execution-before introduction~~ in a device (1) comprising programmable processor unit (4), the algorithm being separable into the form of initial polynomials ( $P_i$ ) of at least two variables each, and having a degree of not less than two, the method comprising the steps of providing combined polynomials ( $Q_k$ ) each obtained from at least two initial polynomials ( $P_i, P_{i+1}$ ), and of implementing the combined polynomials ( $Q_k$ ) in the programmable processor unit (4).
2. (Previously Presented) A method according to claim 1, further comprising the step of storing the combined polynomials ( $Q_k$ ) in the form of a configuration file that is loaded into a memory (3) associated with the processor unit (4).
3. (Previously Presented) A method according to claim 2, wherein the memory (3) and the programmable processor unit (4) are associated with an eraser member (5) serving, in the event of an intrusion into the device, to erase the processor unit (4), and to erase the memory (3) containing the configuration file when the configuration is present in said memory.
4. (Previously Presented) A method according to claim 1, including the step of combining each combined polynomial ( $Q_k$ ) with a function ( $f_k$ ), and of combining the following combined polynomial ( $Q_{k+1}$ ) with an inverse function ( $f_k^{-1}$ ).

5. (Previously Presented) A method according to claim 4, wherein the function ( $f_k$ ) combined with each combined polynomial ( $Q_k$ ) is a linear function.